| | as the second se | | | _ |
|----------------------|--|---|---------------|---|
| | The LDCM Project requests part time support for a technical writer/presentation support employee to support our upcoming MDR and many other technical reviews. Experience in gathering and researching technical documentation from a variety of staff member is pended a blibby to use power point and other project requests part time support from a variety of staff member is pended a blibby to use power point and other project requests part time support from a variety of staff member is pended a blibby to use power point and other project requests part time support from a variety of staff member is pended a blibby to use power point and the project requests part time. | Support | | |
| | | Landsat Data Continuity Mission | 427.0-002-03 | |
| | Develop Earth Sciences Stories with concentration on Goddard Space Flight Center and specifically on the GLORY Mission. Develop web content for Goddard sites as well as press releases and articles based on Goddard Earth Science Mission activities, research and development. Support the Goddard Public Affairs Office in it's outreach activities. | ior care | | |
| 130 | | Earth Sciences Story Development | 426.0-001-02 | |
| | The National Oceanic and Atmospheric Administration (NOAA) Geostationary Operational Environmental Satellite R-Series (GOES-R) Program provides continuity of operations to meet NOAA's mission. The GOES-R program ensures system users are ready to use the system on day one and NOAA is prepared for the operational changes that will occur with this next generations system. In addition to this internal coordination, the program is responsible for providing audiences beyond NOAA with information and materials related to GOES-R that increase awareness of NOAA's science, products, and data to the world's atmosphere, climate, oceans and coastal ecosystems in order to achieve greater environmental literacy, personal safety, and an improved economy. The program also educates audiences on the application of geostationary and include key stakeholders, the science community, academia, international organizations, the general public, and federal, state, and local agencies. GOES-R coordinates education and outreach activities with NESOIS Headquarters, the NOAA Office of Education, and NOAA Office of Community and NOAE office of core saite of outreach products and provide direct support to the GOES-R program Office in the areas of creating scientific and programmatic materials and providing the coordination and outreach and outreach activities with NESOIS measurements of Program status. Explore and suggest use of innovative communications that can be tailored to a wide variety of target audiences. This strategy would include development of core exists of program status. Explore and suggest use of innovative communications that can be tailored to a wide variety of target audiences. This strategy would include development of programmation of the GOES-R team members. Strategically develop, plan, and account the GOES-R team members of programmatic and content p | | | |
| 417 | | Services | 70-100-07-17- | |
| | Provide on-site instrument development support for the Sample Analysis at Mars (SAM) instrument suite within the Atmospheric Experiments Laboratory (Code 699). This effort provides the engineering and technician support to design, build and test flight instrumentation and related components and to provide post-daunch and mission support for the SAM instrument suite. | THE PART HAVE AND ADDRESS OF THE PART HAVE ADDRESS | | |
| | Training, and serving on various Facility committees. | SAM Instrument | 410.0-001-04 | |
| | The goal of this SOW is to support Student Outreach activities including NASA IV&V internships opportunities, Educator Outreach activities, Community Outreach activities, Higher Education partnerships, | IV&V Outreach and Programmatic | 180.0-001-02 | |
| 7W79 | The Exploration Systems Mission Directorate (ESMD) at NASA HQ has a requirement for a graduate student who is trained in science, engineering and/or space policy to assist the Strategic Integration and Management Office (SIMO) to perform its assigned mission. The employee will be assigned to work with the transition, education and public outreach teams as required. Duties will include analysis of NASA education and communications policy for program development, execution and evaluation; and developing applications based on this analysis that are applicable to ESMD's unique mission. Duties will also include integration of program-funded education, communications and transition activities into the overall ESMD program. | Communications Policy Support of SIMO at NASA HQ | 100,0-004-00 | |
| 7W79 | The Inter/Associate will provide support to the Directorate Integration Office (DIO) of the Exploration Systems Mission Directorate at NASA Headquarters in Washington, DC. The support will focus on ESMD Analog coordination and occurrentation; coordinating activities with other government agencies and industry in support of technology analysis; and coordination and organization of the Outpost Science Exploration Working Group (OSEWG) - a multi-Directorate team merging science and science requirements with the Exploration Architecture to identify, track and determine science related objectives for the lunar missions. | Strategic Analysis Intern | 100.0-003-03 | |
| Organization Code | Statement of Work | Work Description | WAP# | |

| L | FIVE COST | | |
|-------|--|---|---------------|
| 805 | The Contractor shall participate in identification, evaluation, and testing of mission planning automated tools and techniques and support the infusion of viable technologies into the GSFC mission planning | SSDOO Mission Planning | 605.0-002-02 |
| | The objective of this work is to extend and complete work on the improved, SWP extraction software for extracting echelle spectra from NEWSIPS SIHI images and extend it to operate on long wavelength, LWP and LWR, data. | Phenomena Observed in IUE Spectra | |
| 605 | TOTAL CANADA CAN | Time Dependence of Stellar | 601.0-002-05 |
| 660.3 | This activity provides support for the design, construction, analysis, and troubleshooting of electrical/electropic systems in the Astrophysic School Privation | ASD Technical Support | 601.0-001-04 |
| **** | General information about the work, high-level overview Earth Science Data and Information System (ESDIS) Science Operations Office (SOO) manages the data centers that process, archive, document, and distribute data from NASAs past and current Earth System Science research satellites and field programs. Work activity members provide direct support to SOO in the areas of creating and marketing data and services outreach materials and providing the coordination and logistics support to accomplish the task. The purpose of this task is to promote the interdisciplinary use of Earth Observing System Data and Information System (EOSDIS) resources including data products, data services, and data handling tools to a broad range of existing and potential user communities. | | |
| 423 | | ESDIS Outreach Support | 587.0-001-04 |
| Č | The results of the metrics analyses are used to ensure optimal utilization of the resources allocated to ECD and non-ECD products that are archived and distributed at MSA-aponspored data centers. The objectives of this effort are to 1) support the operation of the ESDIS Metrics Systems (EMS); 2) collect and analyze the ingest, archive, distribution and user metrics and perform special metrics analyses; 3) develop, maintain and enhance multiple ESDIS-related web sites; 4) provide system and database administration support; and 5) perform as primary ESDIS interface Coordinator for all instruments whose data are archived and distributed at ASDC (MISR, TES, MOPITT), and perform as perform as primary ESDIS interface Coordinator for AMSR-E and GLAS, and provide administrative and technical support to the ESDIS Project and Instrument teams. | | |
| | Arbidises of Several of the Colors, in Serior will specificately support raises of Registering Craiming dequirements. | Science Processing Support Office | 586.0-004-07 |
| | ware e | Software Process Inprovement Support | 585.0-002-00 |
| | Shall provide mechanical design support for the development of the MMS fast Plasma investigation (FPI) instrument Data Processing Unit (IDPU) and the Dual Electron Spectrometer (DES) instrument. Currently, effort is required to finalize the DES Electronics and IDPU electronics assemblies for flight readiness. Knowledge of specialty instrument design along with high voltage design is a necessary. Designing these instruments with the emphasis on manufacturability and reproducibility is key, due to the challenge of reproducing 17 exact copies of a complex instrument. | | |
| 673 | | Fast Plasma Investigation (FPI) Mechanical Design | 556.0-002-03 |
| | GSFC has a requirement to develop large format bolometer arrays for ground based, airborne, and balloon-borne astronomy. This work involves the testing of microbolometers and related microelectronics devices. The facilities required for this work are located primarily in the GSFC building 11. The contractor shall provide engineering support for the testing of superconducting films and related devices. The in-house contractor shall follow established written procedures and laboratory practices and adhere to all Code 553 Branch Safety Policies. Training will be provided by Code 553 Branch personnel. At no time will the contractor be expected to operate the Kelvinox 25 Dilution Refrigeration system without supervision/assistance by trained personnel. | | |
| 553 | | Large Format Array Testing Support | 553.0-001-01 |
| ŝ | This activity provides support for research and development in low temperature thermal, physics, and Astrophysics. | Cryogenics Laboratory Support | 552.0-001-04 |
| 551 | The Integrated Science Instrument Module (ISIM) Optics Team supports the James Webb Space Telescope Project at Goddard Space Flight Center. The Optics Team will provide support for Optical Verification of the ISIM Element (includes metering structure and Science Instruments) in the SES Chamber at Goddard. The contractor shall support the team in developing and documenting the optical test flows, plans, procedures, and data analysis tools required for ISIM Element level existinction of optical requirements during ISIM CryoVac 1 and 2 tests. Team members will also be asked to identify key optical and/or data analysis that need to occur to prove feasibility of the recommended test or enalysis approach. The optical requirements to be verified during these tests have been parsed to 6 Optical Performance Requirements Groups (OPRGs). Each OPRG contains a set of separate related optical requirements that need to be verified. The categories are: 1. Optical Baseline and Calibration Group (OBCG) 2. ISIM Capabilities (OPRGs). Each OPRG contains a set of separate related optical legiment, Popil Shear and Roll (OPRG3) 5. Field of View, Vignetting, Stray Light (OPRG4) 6. Co-Boresigh Stability (OPRG5) 7. WFS&C (OPRG6) The test planning team will also define the optical baseline for each SI to serve as an early ISIM element level performance can be tracked during the test campaign. | Support | 201.070401.01 |
| 544 | Provide expert mechanical and opto-mechanical design support for the CLARREO instrument concept in the following areas: (1) Optics Packaging - Iterate the packaging of the various optic elements within a specified volume, iterate the optic-mechanical mounting concepts considering the optic interface, mount structure and instrument bench design taking into consideration optic sensitivities (stability and temperature delta, etc.). (2) Instrument Structure - iterate the instrument housing/structure such that the need for separate optic mounts is minimal (i.e. the optic would mount directly to the housing via some tailored interface). (3) Filter Wheel - Iterate the current ISAL design to again reduce some risk. Mechanism volume, mechanism for stability over and observation, actuator and bearing selection, etc. | CLARREO Mechanical Design | 544.0-002-03 |
| 43 | This Work Activity coordinates and supports the use and security of JWST Program IT resources. This Work Activity also coordinates and supports the maintenance and development of the JWST world wide web presence. Functions under this Work Activity include: A. Serve as JWST webmaster, maintain server computer, server software and website layout, format and content. HTML, XML, XSL, CGJ, Peri and Java programming as needed to maintain the WAWW site and features. B. Serve as application software administrator for JWST project applications, such as Doors (requirement tracking), Citrix (secure remote access), Mastab, Meeting Maker (calendaring), Where appropriate, administer server computers, hardware and software. Provide user support. C. Advising Program on program-wide IT system upgrades and innovements. Includes studying and recommending new products, coordinating testes with Project Office, coordinating testing and reporting of program-wide software (e.g., Meeting Maker). D. Participate in and administer project communications efforts, including support for JWST Videoconferencing and WebEx (virtual meetings). E. Perform as Alternate Computer Security Official(s) for the JWST program (e.g., STSq.), Prime contractor, instrument teams). 3. Ensuring JWST program compliance with computer security groups as well as those security groups from other entities working with the program (e.g., STSq.). Prime contractor, instrument teams). 3. Ensuring JWST program compliance with computer security groups as well as those security groups from other entities working with the program (e.g., STSq.). Prime contractor, instrument teams). 3. Ensuring JWST program compliance with computer security groups as well as those security groups from other entities working with the program (e.g., STSq.). Prime contractor, instrument teams). 3. Ensuring JWST program compliance with computer security groups as well as the security groups and the relevant GPGSjF. Act as IT technical point-of-contact between JWST network integrated Modeling Facil | JWST Information Management | 443.0-001-04 |
| | | Total Control of the | |

| 606.3-003-06 DI | 606.1-002-05 | | 606.0-013-00 | 606.0-011-01 | <u></u> | <u></u> | |
|--|--|---|--|---|--|--------------------------------|--|
| Direct Readout Data Systems Design and Development | HECN Network Support | Suite | Support Support for the HSEG Software | SED Web Council Development | SED Data Center Support | Code 605 Mission Cost Modeling | Science Proposal Support Office Services |
| Provide software support for the NPP in-Situ Ground System (NISGS). Provide System Administration support for the Direct Resdout Laboratory. Work scope includes: Provide support for system administration and If security as described below for all Direct Readout Lab computer systems on the CNE and SEN networks. Note, the computers identified below have unique requirements and must be administrated in close coordination with DRL developers. All computer systems: - are to be configured, maintained and managed in accordance with the NIST 800-53 technical controls as specified in the CD-1014-L-GSF-6004 IT security plan where applicable unless specified in the CD-1014-COMP of the plan as a deviation and approved as an acceptable risk by the plan's system owner: - are fulfill be configured to be in compliance with all Agency and Center mandated IT security controls within their prescribed deployment schedules including the installation and configuration of Patchlink, CIS, FDC and Active Directory where applicable unless specifiedly identified and documented in an approved waiver: - will remain as current as possible with a control of virtual party software patches and upgrades with a set refort deployment of within 30 calendar days from vendor release for those with risk ratings of "critical" or "high" unless constrained by mission "freezes" or other critical operational requirements will be maintained such that vulnerabilities found from Center scans will be corrected, mitigated or documented as a high party download updates and run scans at least weekly will be maintained such that vulnerabilities found from Center scans will be corrected, mitigated or documented as a high party and with April 24-18-18-18-18-18-18-18-18-18-18-18-18-18- | and labeligh and develop high speed network architectures, conduct network network recommentary mercure recommentations, perform network systems hardware and software installations and configurations, perform network systems hardware and software installations and configurations, perform network systems hardware and software installations and configurations, perform network systems hardware and software installations and configurations, and support networking technologies, postocols, and applications, in such areas as optical networking networking for productions and include to the CISTO The HEICH involves world class network engineering for advanced networking cligable Ethernets (soon also 40-8, 100-Gigable Ethernets), storage area networks (SAMs), (ligh Definition based video confirmation), involves world class reproached in support producity, capabilities, adherence optimization for very high bandwidth felsy networks. This world class apparatio is applied across LAN, MAN, and the experiments of the confirmation of very high bandwidth felsy networks. This world class apparation are supported to the confirmation of very high bandwidth felsy networks. This world class apparation are supported to the confirmation of very high bandwidth felsy networks. This world class apparation analyze useful projects of the confirmation of very high bandwidth felsy networks. This world class apparation are supported to the confirmation of the very high bandwidth felsy networks. This world class apparation analyze useful project requirements of network intermities and the confirmation of the confirmation of the confirmation of the project of the confirmation of the very high bandwidth felsy network products such as a harding of network user goals and derived requirements, port load balancing, or achieving certain throughput. C Design poplions. Develop network design alternatives useful and adaptive design for the confirmation of the project of review by users and Center management to assess adequacy in meeting various product s | efficiently by segmenting the data and processing it using conventional serial computer architecture or, optionally, using parallel architecture. HSEG is a mature software package, with a stable, moderate-sized source code base. This work activity is focused on developing rational and well-documented configuration management processes, verification and validation processes, and tools for building and | The GSFC Code 600 Web Council is overseeing the development of the re-design of the SED Line Organizations' web sites. The new design has three major sections: Organizational pages, Science & Engineering Professional Resources pages, and E/PO Resources pages. The effort has high visibility as the Directorate strives for a uniform look and feel and structure across all projects and labs. Provide software engineering support for the Hierarchical Segmentation (HSSG) software package, HSSG is a sophisticated pre-processor for image and image. His data that describe a striver is not to the Hierarchical Segmentation (HSSG) software package. HSSG is a sophisticated pre-processor for image and image. His data that describe a striver is not to the Hierarchical Segmentation (HSSG) software package. | The contractor shall support the Code 600 DCSE in planning/coordination, security process improvement, policy development, and metric collection. | The Sciences and Exploration Directorate is establishing a consolidated Data Center to house servers that support Code 600 requirements. The goal of the consolidated Data Center is to better manage the Directorate's IT, to meet Agency mandates and initiatives for consolidation, and to address the need for a Data Center remote from Building 34 to support science users. This Data Center should be efficient and meet end-user needs. The servers should employ virtualization where appropriate. The servers shall also support the Code 600 consolidated web site(s). | | The Science Proposal Support Office (SPSO) assists Goddard scientists and technologists in responding in a timely and effective manner to proposal opportunities offered by NASA and other Government agencies. Various SPSO services are available to GSFC civil servants and contractors, including proposal strategic planning, red team support, budget preparation, and NSPIRES data uploading. |
| 606.3 | 606.1 | 608. 3 | | 606 | 660.2 | 605 | 38 |

| | The second secon | | |
|-------|--|--|--------------|
| | Develop a Giovanni instance or portal for YOTC which will initially involve using Level 3 gridded data (~20 distinct data sets with hundreds of geophysical parameters) allowing working with maps at various vertical levels and the corresponding averaged profiles. Another goal of Giovanni-YOTC will deal with the higher resolution Level 2 data (~25 distinct data sets). The data in Giovanni-YOTC will be coming from ARS, MODIS, TRMM, MLS, GloudSat, CALIPSO, QuikSat, AMSR-E, GPS, and other space borne sensors. Giovanni-YOTC will extract and provide to users as a package only parameters appropriate for YOTC will be coming the coming of the comin | | |
| 610.2 | | YOTC- Year Of the Tropical Cyclone | 10-580-7-019 |
| | The Biological Resources Division (BRD) coordinator will make contacts with scientists based on BRD suggestions, in order to develop leads for Metadata creation The BRD cooddinator will use the SMMS tool to create National Biological Information Infrastructure (NBI) metadata The coordinator will use Global Change Master Directory (GCMD) conversion tools where metadata already exist in either DIF or another format The coordinator will provide user support for users of biological/ecological data set information in the GCMD and NBII - The coordinator will provide a tiaison between the GCMD and NBII sechnical staff on technology development, including distributed indecies and searches, metadata crosswalks, etc. | | |
| 610.2 | | Resources Division | 20-280-7-014 |
| | Set up and maintain Glory science data system within GES DISC. Compile metadata specifications for data products to be archived and distributed from GES DISC. Test and configure interfaces with Glory data providers. Test Glory science data system, including end-to-end testing in preparation for operational data flows. Establish and maintain Glory science data archive, Provide science data support for Glory data sets, including data set documentation, identification of value-added products and services and responding to user queries for data and information. Identify opportunities to leverage science data support activities with similar data sets available through the GES DISC. Transition appropriate routine activities to the Operations Group. | | |
| 610.2 | | Glory Science Data | 610.2-078-03 |
| 610.2 | Provide science data support for project partners, including ingest, archive, value-added data processing, data access services, documentation, and outreach Operational data flow: Maintain AMSRE data flow - Documentation: Prepare inputs to project final report (9/30/10) | Decision Support System (DSS) | 010.2-07-010 |
| 610.2 | to support the GPM and potentially other precipitation missions. | Processing System (PPS) | |
| | (REASON) website, the Private REASON website, the EOSDIS Evolution page, - the REASON/ACCESS/MEaSUREs e-Books software and website, and the Metrics Collection Tool software and website, and the Single Sign-On authentication service for them. | | 510 2.076 78 |
| | This activity will maintain and enhance the information pages that describe the on-going work in support of overcoming NASA's Earth Science data system challenges. The contractor will provide support for: - the Earth Science Data System Working Groups website (formerly known as the Strategic Evolution of ESE Data Systems, SEEDS), - the Research, Education, and Applications Solutions Network | | |
| 610.2 | | ESDSWG Website Maintenance | 610.2-074-77 |
| | Inte contractor will provide programming and analysis support in using remotely sensed data for public health related research and development. Specifically; #1. Identify suitable remote sensing and disease data for the project. Process the data to the required spatial and temporal resolution. Document developed software and processing procedures. #2. Perform modeling and analysis using mathematically rigorous and scientifically meaningful methods in a timely manner. State-of-the-art methodology should be used whenever possible. Document developed software and analysis procedures. #3. Support presentation, manuscript writing, and proposal preparation. | | |
| 610.2 | | Public Health Project Support | 610.2-073-76 |
| 610.2 | Support the Committee on Earth Observation Satellites (CEOS) International Directory Network (IDN) and Federal interagency metadata management and science activities. | Report | 07770720 |
| 610.2 | Provide dataset and related Earth Science services metadata and make available to scientists, students, educators, and policy makers through an online search and retrieval system. | Comment of the sales of the control | |
| | | Global Change Master Directory | 610.2-071-75 |
| 703 | Employee will support the Terra Project Science (PSO) office in the area of technical data acquisition, will aid in the preparation of reports, presentations, and published materials both directly related to Terra Project Science and related research efforts. Employee also provides editorial support to the PSO in the preparation of the response to the 2009 Senior Review Panel as needed. Currently this consists of (but is not limited to) acquiring UNFAO and other supporting data on human consumption for input to NPP models. Employee will make contact with others as needed to accomplish tasks as assigned. The employee will also support the PSO in preparing for Terra's 10 years on-orbit science and public outreach efforts. This will consist of a combination of editorial work and planning with the EOS outreach coordinator(s). Part of this effort will be to support Terra at 10 - a Fall 2009 AGU special session consisting of 4 sub-sessions, a special addition to the NASA exhibitors booth, and a courtesy room. Employee will accompany Terra Team to AGU. | Also Society of Control of Contro | |
| | Provide support to the NASA HQ Applied Sciences Division. This includes: conference support, graphic design, publication production, multi-media product production, and other outreach services. | and Outreach | 610 0014-01 |
| 613.2 | | Applied Science Communication | 610.0-013-02 |
| 200 | | AVDC Support | 610.0-011-14 |
| 610.3 | The NASA Earth Science News & Information Team has responsibility for promoting newsworthy EOS, Heliospheric and other NASA-funded Earth science research through the news media | Earth Science Story Development | 610.0-007-10 |
| 613.2 | General Objectives Provide design, development, and reproduction services for public outreach materials for NASA Headquarters, and conference support for NASA Headquarters Science Mission Directorate. | NASA SMD HQ Outreach Support | 610.0-004-03 |
| 613.2 | Support activities associated with all aspects of special NASA HQ presentations. | Special NASA HQ Requests Activities | 610.0-003-03 |
| 613.2 | Provide support for the maintenance of MODIS Joint Atmospheres product (MOD08) software and web sites related to Code 610 activities. | MODIS Atmospheres Product Support | 610.0-002-05 |
| 613.2 | This Activity provides logistical and scientific support for the Earth Observing System (EOS) Project Science Office. | EOS Project Science Office Support | 610.0-001-04 |
| | | | |

| | Abilition maintenantation of an article and article article and article and article article and article and article article article and article article and article articl | | |
|-------|--|--|---------------|
| 610.2 | Develop a precipitation data and information services center. Develop a web-based Data and Information Services Center to serve the needs of the precipitation science community | 7 000 | l |
| 610.2 | identify and merge like data parameters from different datasets. To select appropriate datasets, and develop and maintain scientifically justified data merging software for chosen parameters. | Muxi-sensor inter-comparison | 010.2-104.00 |
| 610.2 | The work for this effort is to continue maintaining and enhancing the current Giovanni 3 (G3), G3 enhancements should be based on guidance and requirements as developed by the science team from the various DISC science projects. The new direction for the GES-DISC Giovanni visualization is to switch to Agile Giovanni, so the activities and services in this WAP should be limited to enhancements that are considered as not requiring significant efforts and not requiring infrastructure change. | Giovanni (G3M) | 610.2-102-00 |
| 610.2 | Implement Aglic Govanni as well as systems engineering support for reschibly standards, Aglic Govanni as well as systems engineering support for GSS-DISC activities. Implement Aglic Govanni as well as systems engineering support for GSS-DISC. Maintain and enhance data availability through the OpenDAP interface. Enhance and support the HTTP Services framework and netCDF conversion capabilities. Maintain Mirador interface and support the HTTP Services. Maintain S4PA archiving software, including the interface to ECHO. Provide systems engineering support for non-ECS systems. For non-ECS operational systems, Support Agile Giovanni sprints and enhancements. | | |
| 610.2 | | Software Francisco | 610 2-101-00 |
| 610.2 | Leveraging existing technology, develop and maintain a system that will allow the user to apply quality screening on the fly. The service will be deployable as a simple REST (Representational State Transfer) Web Service at the data provider, taking as input the original data product and producing as output the same product, but with quality screening applied according to the science team's recommendations. | (DQSS) | 010.2-100-01 |
| 610.2 | Seven MEaSUREs Projects will be delivering datasets to the GES DISC for archive and distribution starting in 2011. This WAP constitutes the "MEaSUREs Mission at the GES DISC" in support of this activity. These datasets will require joint planning with the dataset providers and DISC staff to ingest, archive and distribute these data to the science user community. GES DISC approach is to implement a standalone system that re-uses GES DISC system components (e.g., S4PA) that will house the data archive and distribution of all 7 projects. Thus, theoretically, the MEaSUREs data management must not impact the management of other datasets already resident at the GES DISC in a negative manner, and vice versa. Appropriate capabilities for data archive, search, and access afforded existing GES DISC datasets will also be provided to the MEaSUREs datasets. Advanced data services (e.g., subsetting, format conversion) will be investigated and implemented where appropriate. | Data Quality Screening Service | 610.2-098-01 |
| 610.2 | AeroStat will provide a collaborative research environment where aerosol scientist can seamlessly share AeroStat workflow execution, algorithms, best practices, known errors and other pertinent information with the science community so other users of the system can reproduce their results. AeroStat will allow users to share the full details of individual case studies by publishing them on a Wiki. | MESCIRE Days at the GES DISC | 610.2-095-01 |
| 610.2 | This effort is to provide support for externally funded task on Long Term Aerosol. The task consists of research or services provided by the GES-DISC staff in support of Long Term Aerosol related tasks. | Long Term Aerosol Support | 610.2-093-01 |
| 610.2 | Provide GMAO-5 and MERRA ancillary data support to ensure that NCEP, and other ancillary data products, if any, are available to GMAO-5 and MERRA data processing, with a goal for uninterrupted service. If ancillary data delays occur, personnel will be notified and respond immediately to ensure ancillary data will again be available to GMAO-5 and MERRA processing. Interruption to delivery recovery will be minimized and recovery attempts must commence upon notification. | M-DISC Ancilary | 610.2-090-01 |
| 610.2 | Provide Web support for Global Change Data Center management which include but not limited to: " web application setup " web design and development. " web prototype " user support. This WAP support ongoing activities within the Hydrology Data and Information Services Center (HDISC), including data-support for: - Routine ingest and archive of GLDAS, NLDAS and related data sets, including reprocessed data - Data reconciliation with data providers - Data distribution to the science user community. | Web GCDC H-DISC Maintenance | 610.2-089-01 |
| 610.2 | The Multi-Sensor Data Synergy Advisor (MSDSA) is a framework, including software, ontologies, rulesets and related tools, which aims to advise and help NASA Decadal Survey missions data users in a number of operations involving multiple datasets: data merging, cross-calibration, cross-comparison and fusion. This framework will provide scientists improved access to data and software tools and the ability to discover and consolidate shared services for more effective use of data in the science community. By allowing researchers to combine and compare data from multiple sensors, such that scientifically and statistically valid conclusions can be drawn, the MSDSA will enhance cross-mission synergy and enable the creation of new information products (e.g., merged parameters from separate satellite platforms that increase global spatial and/or temporal coverage). This is a collaborative effort involving NASA, Univ. of Maryland (Baltimore Campus), Rensselaer Polytechnic Institute (RPI): as man collaborators. SESDA II staff provide supporting data and development services according to the priorities that are identified by the task. Deliverables and services provided are in accordance with the requirements of this work activity. | MUSA- Multi-sensor Data Synergy Advisor | Th-7-801-7-1T |
| 610.2 | Develop and maintain Monsoon Asia Integrated Regional Study (MAIRS) data and information services center (DISC) focusing on the support of MAIRS data products and services. The GES GSFC MAIRS effort will highly leverage the already developed components and data from the successful NASA NEESPI Data Center. Support shall include a Web portal, Glovanni visualization services, data access, and outreach activities including helping Nanjing University of Information Science and Technology (NADSC) staff and MAIRS scientists in use NASA satellite remote sensing data. | Monsoon Asia Integrated Regional Study (MAIRS) | 610.2-086-01 |
| 610.2 | Provide a new portal (Atmospheric Composition Portal- ACP) to facilitate transfer and display of Atmospheric Composition NASA-GSFC and Forschungszentrum der Bundesrepublik Deutschland Luft- und Raumfahrt (DLR), Germany's national research center for aeronautics and space. This portal will provide data and web-based service related to atmospheric composition datasets that can be searched and filtered (1.3 data sets). A part of the effort is to develop appropriate community requirements and use cases with the science and user communities and to foster relationships with other organizations; develop a detailed description of the interoperability framework for the datasets and provide description of data, metadata, and interface standards and protocols and guidance for their implementation, Deliver a Beta release of the portal. | ACP- Atmospheric Composition Portal | 610.2-085-01 |

| | TO THE REPORT OF THE PROPERTY | | |
|---|--|-------------------------------|---|
| | In collaboration with ACOS Project at NASA JPL, GES DISC will archive and distribute science data products from the ACOS Project. Information will be collected on CO2 and related science data to be supported. Appropriate interfaces will be established at GES DISC to retrieve, ingest and archive science data from the ACOS Project to include data/metadata preparation, system testing and transition to operations for routine ingest. Science data support will be presence, and identification of appropriate data services. Market will be collected available from GES DISC to include recommendations on metadata and data format specifications, data documentation, web presence, and identification of appropriate data services. Market will be collected as a validation of appropriate data services. | | |
| 610.2 | | (ACOS) Project | 010-711-00 |
| 610.2 | The GES DISC will develop the user interface for Simple Subset Wizard (SSW) and subset Agents. The GES DISC will also specify a schema for capturing dataset information (e.g. subsettable variables) from the participating data centers. The GES DISC will deploy the system on a testbed available for joint testing with participating data centers as well as an operational instance. The GES DISC will also provide metrics on use of the SSW to the EMS system excluding metrics of data transferred via subsetting that will come from the data centers. The GES DISC will facilitate discovery and sub-setting of selected GES DISC datasets through IPL's NIAID system. | STANDON STANDARD | |
| | amplement in original political sustaining of Journ's Services | Technology Evolution | 610.2-116-00 |
| 610.2 | EP-TOMS constitutes a heritage dataset that will be archived at the GES DISC. This effort is set up to interface with the EP-TOMS team and make it possible to transfer and host the data for distribution here at the GES-DISC. As part of this activity, the following is a list of potential activity that will be mutually developed and executed: -collect all information objects from EP-TOMS team - Create DIFs for LLD - Review documentation with PI - Learn about metadata and data - Extraction Metadata - Ingest data into S4PA - Export metadata inventory to ECHO - Make L1b data available via Mirador and ECHO/MIST search interfaces - Supporting ESDIS metrics collection - Design and implement changes to atmospheric web portal - Extract information from documentation to provide a nominal level of supporting ESDIS metrics collection - Design and implement changes to atmospheric web portal - Extract information from documentation to provide a nominal level of | COND | |
| 610.2 | the recovery of the original tape contents. | CP 400 | 610 7.416 60 |
| | the recovered NSSDC NIMBUS II HRIR data at the GES DISC. The result of this effort represents an expectation of what | Earth Science Data Recovery | 610.2-114-00 |
| 610.2 | Develop and maintain a Hydrology-Data and Information Services Center (HDISC), focusing on the support of hydrology data products and services available from the GSFC Hydrological Sciences Branch. Engage the soil moisture and hydrology user communities for data product identification, data access, data usability, and information and services relevant to HDISC data products. Develop and maintain documentation and tools that facilitate data analysis and visualization, data interoperability and usability. Engage data providers as well as data users to develop collaborations and partnerships. Maintain and update HDISC web portal. Maintain and enhance association with the NASA GSFC Hydrological Sciences Branch and their affiliates. Support the transition of appropriate activities to the Operations Group. | A Pero A Roman | 100 A B B B B B B B B B B B B B B B B B B |
| | The second state of the second | Hydrology DISC | 610.2-113-00 |
| *************************************** | Provide overall science data support for the use of GES DISC data holdings (i.e., support not already provided through the individual DISCs). Interact with local science laboratories, as appropriate, to ensure their needs/requirements are being fully met by current and/or proposed GES DISC functionality. Ensure proper coordination with elements of other GES DISC groups, including shorter-term, matrixed activity groups, to optimize resource utilization, identify interdependencies, and facilitate task completion. Provide science and help desk support for Giovanni. Support MODIS, MISR, CERES, TES, Ocean Color and other non-GES-DISC data in Giovanni. Promote Giovanni acconstruction of the color of the | | _ |
| 610.7 | | Science Support and Help Desk | 610.2-112-00 |
| 610.2 | Provide all aspects of project workstation support for the GES DISC including hardware, software and data backup/restores, and logistic support. This work activity requires on-call support as defined within the terms and scope of the GES DISC on-call policy. | Desktop Support | 610.2-111-00 |
| 610.2 | Provide security support for the development, test and operational systems at the GES DISC. Ensure all GES DISC systems, infrastructure, people and information maintain all required levels of confidentiality, availability and integrity. | Security | 00-011-2-ora |
| | apport stem execute to all pount, well servers maintained by the GES DISK. The term "Web site" includes all such Web servers and machines | Control | 610 3-110-00 |
| 610.2 | Perform sustaining engineering and system administration tasks for non-ECS systems. For non-ECS operational systems, perform sustaining engineering and system administration, including on-call support within the terms and scope of the GES DISC's contractually approved On-Call Policy The contractor will provide support for the maintenance, enhancement, and development of the GES DISC web site. | | |
| | | infrastructure | 610.2-109-00 |
| 610.2 | The Mission Support task covers the operations of and operations engineering for all GES DISC systems. This effort covers monitoring and supporting the nominal data flows and resolving and recovery from anomalies and problems. The effort also includes development of system utilities and automation to enhance the systems beyond their delivered capabilities. Such system utilities and automation will handle new anomalies and problems after they are encountered. This effort shall also include a consolidation of all metrics reporting across the GES DISC into this single activity with a goal of reducing effort duplication and establishing consistency of report for all GES DISC activity. | | |
| | ure. Insuriouse the middlesself which reedback from the user community on the MDISC can be collected and applied. | Mission Support | 610.2-108-00 |
| 610.2 | This effort will support and be responsive to scientists and users of Modeling DISC data which include GEOS-5, MERRA, GOCART, ancillary data (e.g. WMO, NOAA/NESDIS, and NOAA/NCEP), and other data as deemed appropriate. The effort also generally supports the MDISC Web portal, online documentation, data access, data services that facilitate maximum usefulness of the data, and outreach activities that commerce the Modeline DISC March 1860 generally supports the MDISC Web portal, online documentation, data access, data services that facilitate maximum usefulness of the data, and outreach activities | Modeling DISC | 610.2-107-00 |
| 610.2 | Develop a data and information services center (DISC) focusing on the support of Aqua AIRS data products and services. Integrate AIRS algorithm code into the science data production system at GES DISC. Develop test plans and schedules as needed. Provide support to Near Real Time (NRT) data acquisition, product generation and data distribution. Discuss algorithms and science support with AIRS algorithm providers. Engage the AIRS and atmospheric dynamics user community for data access, data usability and information and services relevant to AIRS and related data products. Develop documentation and tools that facilitate data analysis and visualization, data interoperability and usability. Maintain and enhance Giovanni instances for AIRS data products. Support the transition of appropriate tasks to the Operations Group. | | |
| 7.0T0 | Preserve and support Atmospheric Composition historic data from UARS, TOMS, etc. | Atmospheric Dynamics DISC | 610.2-106-00 |
| | Support the Atmospheric Composition Data and Information Services Center (AC-DISC). Provide User Support, documentation, public outreach and data services related to Aura OMI MIS and HRDDIS data | ACDISC | 610.2-105-00 |

| 613.3 | Support the creation, archiving and release of a long term multi-sensor ozone data record including ozone profile information. Additionally fulfill the requirement of the 'Making Earth System Data Records for Use in Research Environments' (MEaSUREs) program by participating in one or more Earth Science Data System Working Groups (DSWGs) | Long Term Multi-Sensor Ozone S | 613.3-008-03 |
|-------|--|-----------------------------------|--------------|
| | 1. The contractor will attend Project Science and other mission-related meetings; taking, editing and distributing meeting minutes. These meetings will be several times per month and some will involve national or international travel. The candidate will help coordinate activities and logistics for the meetings as well as assist in presentation development as required. The contractor will research and write articles related to instruments, science, operations and other spects of the GPM mission. These articles will be posted on the mission website and on other selected media and publications, such as Goddard Tech Trends'. The contractor will develop content for other GPM outreach materials including both printed material, brochures, fact sheets, lithographs, reference documents, conference exhibits, and web-based content. 2. The contractor will populate and maintain a GPM website content management system. The contractor will work with 17 staff to implement and maintain required security procedures. Work will include working with mission staff to determine changes and implement necessary to the homepages, site pages, navigation, information architecture and functionality, and creating web implementations of selected graphics. The contractor will maintain documentation related to the site. | | |
| 610.1 | | n Mission | 613.1-002-01 |
| 2/2 | This work activity provides support for processing and analysis of cosmic ray data from the Voyager Cosmic Ray Subsystem and the IMP-8 Goddard Medium Energy (GME) experiment. | | |
| 674 | The second section of the sect | Analysis | 612.4-001-04 |
| 674 | The contractor will provide unprovide or the contract of the contract of the contract or the contractor will provide unprovide of the three contractors and magnetosphere. | Rocket-Flight Data Support | 612.3-006-09 |
| | Community Coordinated Modeling Center (CCMC). | | 80.300c c |
| 674 | Provide network administration; provide system administration support for peripheral, desktop, and Beowulf cluster systems; ensure adherence to Agency and Center security standards for the | ystems and Network | 612.3-004-07 |
| 672 | Deal analysis support for studies of reinospirer's structures using data primary from the law's and whitu spacecraft, Perioding and simple data analysis tasks in support of branch heliospheric research. Provide programming support for the development of the Virtual Heliospheric and Magnetospheric Observatories (VHO/VMO). Perform simulations of solar neutron environment in inner heliosphere for comparisons with Solar Probe spacecraft observations. | nellosprieric scudies | C0-700-6:710 |
| 674 | This WAP provides database maintenance and technical support for the GEOTAIL satellife. | | 612.3-001-04 |
| | Spectrum Analyzer Module (SAM) and Central Processing Unit-2 (CPU2); (2) in close interaction with the technical monitor, staff will design, develop and implement application programs to analyze CAPS data. (3) Effort will provide administrative functions on all Sun workstations, PCs and MACs for the CAPS group. | | |
| 673 | Provide software and system management support for the Cassini CAPS flight software: | Cassini/CAPS Software Engineering | 612.2-002-05 |
| 670 | Provide logistical and science support to LWS Program Office. Support Education and Public Outreach (EPO) activities for Solar Dynamics Observatory (SDO) mission. Support organization of NASA supported meetings by developing registration websites, assisting with travel logistics (hotel, airfare reservations), and reimbursing non-civil servant travel. | LWS Program Support | 612.1-010-13 |
| | scientists at GSFC and throughout the international scientific community on a non-interference basis. This task also supports development of foots to extend the data analysis capability of the Virtual Solar Observatory (VSO), and the development of a new instrument for measuring the polarization of solar flare X-rays in the energy range from "10 keV to 50 keV. | | |
| | before bunch and all subsequent flight data. Observations complementary to the RHESSI data including those obtained from ground-based observatories and from other spacecraft such as Yorkoh, SOHO, TRACE CGRO/BATYE STEREO Himode & Fermi/GBM. All data software and analysis results assisting from this work will result in the Color Data Analysis Center and will be made available to a linear tank. | | |
| | The purpose of this effort is to provide support for obtaining, cataloging, analyzing, archiving, and disseminating various data sets of interest to the members of the Solar Physics Laboratory (Code 671). These data sets include but are not limited to the following: X-ray and gamma-ray data from the Ramaty High Energy Solar Spectroscopic Imager (RHESSI). This will include calibration and test data obtained | | |
| 671 | | Solar Flare X-Ray Data Support | 612.1-009-12 |
| 0/1.1 | (SOHO). | Support | 0.000 |
| | Develop data analysis techniques and software tools to support scientific interpretation of observations from the Solar Dynamics Observatory (SOO). Develop and maintain SOO Web portal. | | 612 1-005-09 |
| 671 | | LWS/SDO Science Support | 612.1-004-07 |
| 671 | Provide engineering and scientific support to STEREO Coronagraph (COR1), including logistical and travel support to non-civil service visitors to GSFC and travelers attending meetings on STEREO- and Space Weather-related topics. | STEREO COR1 Support | 612.1-003-06 |
| | software and computer hardware support. Support the Solar Data Analysis Center (SDAC) in the archival and distribution of data from past, present, and future space solar physics missions, including support for the development of the Virtual Solar Observatory. | | |
| 671.1 | Support the STEREO mission Science Center, including processing STEREO beacon data, distribution of STEREO science data, mission science coordination, educational and public outreach, and related | Support | 612.1-002-05 |
| 670 | The contractor shall provide computer and network system administration support to the Heliophysics Science Division. | L | 612.0-004-07 |
| | In objectives of this error is to provide consulting support for external data system data systems using cres-ups, tools like 544, 5449, and to communicate with them to better understand challenges and mitigate risks by implementing such an external data system environment. This external data system is to simulates the projected DESDyni Data System-Ildar (DDS-L) functionality and performance solutions. Actual configuration and operation is to be performed by the external non SESDA 2 collaborators and the SESDA 2 role is to provide consulting services in support of standing up such an SAP system. Some initial System Administration and system configuration and setup services will be performed by SESDA 2 staff. | | |
| 610.2 | | External DISC System Support | 610.2-118-00 |

| | will develop cryosphare-related news stories and alerts and act as lisison to the Public Affairs Office and the Earth Sciences NEWS Team. | | |
|-------|--|--|--------------|
| | overview slides, posters and other outreach material for Goddard management and NASA HQ. Staff will also support design and content development for Branch, IceBridge, and for ICESAT-2 websites. Staff | | |
| 614.1 | This effort supports education and outreach activities of the Goddard Conscious Reach Staff has the police of constant for DECO conscious and outreach activities of the Goddard Conscious Staff has the police of constant for DECO conscious and outreach activities of the Goddard Conscious Staff has the police of constant for DECO conscious activities of the Goddard Conscious Staff has the police of constant for DECO conscious Staff has the police of the Goddard Conscious Staff has the police of constant for DECO conscious Staff has the police of the Goddard Conscious Staff has the police of constant for DECO conscious Staff has the police of the Conscious Staff has the Co | Cryosphere Branch Outreach Support | 614.1-006-01 |
| 614.1 | Develop and update satelite data sets regarding sea ice and climate; calculate and plot a variety of statistics based on satellite data; map sea ice and climate variables from satellite data. | Remote Sensing Studies of Sea Ice | 614.1-004-07 |
| 614.1 | involvis snow and the data products are maintained and enhanced through the use of image processing, and other methods (e.g., maintenance of the website); additionally, (the caps and the Greenland ise sheet are studied in terms of changes over time. The objective of the MODIS snow and ke work is to maintain the data products and perform validation studies and outreach. The overall objective of the ice cap study is to measure changes in ice cap albedo and surface temperature, and to monitor change in elevation of the lead products and perform validation studies and outreach. The overall objective of the landsat TM and MODIS data. | MODIS Snow Project Support | 07-1-003-00 |
| 614.1 | Support the development and validation of sea ice algorithms for satellite based microwave data. Validate the AMSR-E sea ice products and refine the corresponding algorithms. Convert Windows-based sea-ice algorithm code to run in a Linux environment. | AMSR-E Sea Ice Algorithm Validation and Refinement | 614.1-002-05 |
| 614 | 1. Sustaining Engineering on HST Exhibit at GSFC Visitors Center - The contractor shall maintain the Smithsonian institute Traveling Exhibit (SITES) Hubble Space at the Goddard Visitors Center. The contractor shall provide maintenance and repairs to the exhibit The contractor shall be responsible for upgrading the SITES HST exhibit klosts with upgraded content based on new HST discoveries and images The contractor shall modify the exhibit as necessary to network the computers provide additional power, convert MPEG digital video to required formats, etc. as directed by the government ATR. 2. Installation, De-installation, Relocation, and Sustaining Engineering on Traveling HST Exhibit. The contractor shall be responsible for the quarterly (approximate) de-installation, relocation, and re-installation of a second, smaller HST traveling exhibit and performing the same sustaining engineering functions described for it as described in Item #1 including repair, upgrade, and periodic augmentation with new features. 3. General Support for HST Outreach Activities including but not limited to: a the development of new HST exhibits b, webpage content to announce such exhibits c, configuration of equipment to support public talks d, internet hookup to HST public exhibits, etc The contractor shall be responsible for purchasing the hardware necessary to perform any maintenance or upgrade, as pre-approved by the government technical monitor. | Hubbis Space Telescope Outreach | 514,0-003-02 |
| 524 | Primary responsibility is to support the installation and operation of the Goddard Science on a Sphere (505) located in the Globe Theatre. This includes designing and conducting visitor programs using newly created and existing data sets. The design effort frequently involves working with NASA Goddard\'s science community to bring new data sets to SOS. All of these data sets and programs are made available to the larger SOS User Community, worldwide, to promote NASA's science mission. The data sets are used to enhance the use of SOS within the outreach community, to facilitate the worldwide growth of SOS. The Solar System on a Sphere (SSOS) project will bring the most up to date science on our solar system to SOS in a compelling outreach story to support formal education outreach. Again our responsibility is to introduce the data sets on SOS. Support beta testing of new releases of SOS system software, and generate suggestions for modifications and enhancements. Perform upgrades and ongoing improvement of the Visitor Center auditoriums, conference, and exhibit spaces. | | |
| | | GSFC Visitor Center Support | 614.0-001-04 |
| | NASA Goddard Code 613.3 has been funded under the MEASURES program to establish a long-term, contiguous dataset of the Earth's Lambertian Equivalent Reflectivity (LER). The primary satellite instruments considered in this merged LER dataset are the NASA Total Ozone Mapping Spectrometer (TOMS) instruments, the NOAA Solar Backscatter UltraViolet (/2) (SBUV/2) instruments, the joint US/Dutch Ozone Monitoring instrument (OMI) and the Orbitew SeaWiF5 instrument. The TOMS, SBUV/(2) and OMI datasets have recently been reprocessed with the most current retrieval algorithm (TOMS version 8), providing a continuous dataset starting with the Nimbus 7 statellite in November 1978 and Continuing to the present. While any one officies datasets is instrificient to determine long-term (multi-decadal) trends in observed quantities, the MEASURES project attempts to assemble a robust long-term, multi-satellite LER dataset with sufficient overlap, from which reliable long-term may be derived. Details of the geophysical variability of LER over the last three decades is needed as a baseline for climate models that calculate the Earth's energy balance and cloud tendencies. Primary tasks will include: 1) Finalize a draft paper to The Journal of Geophysical Research (Atmospheres) of the diurnal variability of LER as a function of latitude; 2) Determine the causes of differences (including Mysteresis) between the Nimbus-7 TOMS and SBUV datasets in the context of the merged LER dataset; 4) Apply an algorithm to correct the SeaWiF5 reflectivities measured at 412 Å, 410 nm to an "quivalent SBUV LER" at 340 Å, 411 nm as a function of latitude (and perhaps other parameters); 5) Assist in the writing and preparation of reports and scientific publications; and 6) Attend regular MEASURES Science Team meetings and other related meetings. | | |
| 613.3 | | Reflectivity (LER) | 10-010-6:519 |
| | The Total Ozone Mapping Spectrometer (TOMS) ozone satellites have been in orbit for almost three decades. Over that time, there have been a number of separate TOMS instruments (Nimbus 7, Meteor-3, ADEOS and EarthProbe), a sequence of retrieval algorithms, and a growing number of data products (total column ozone, Lambartian Equivalent Reflectivity (LER), Aerosol Index (AI), surface UV-8, etc.). While details of various aspects of the TOMS program have been individually published and documented in reports over the years, there has never been a single document that record the details of the instrument, its algorithms and data products. Therefore, at the conclusion of the TOMS series of instruments it is appropriate to provide a complete documentation of the entire TOMS program. This decumentation will include brief documentation of the precursors of the TOMS instrument (e.g., the Nimbus 4 BUV instrument) at well as its successor (the Aura OMI instrument) in order to point out the development of instrumental and algorithmic changes; the IDMS instrument fe.g., the Nimbus 4 BUV instrument) are published and unpublished and unpublished. A timeline of events will be prepared. Interviews with relevant current and retired staff associated with TOMS will be conducted, and recorded in MP3 electronic format. Travel to the 2008 Quadrennial Ozone Symposium (QOS) and to Boulder, CO will permit interviews with scientists who are not currently located in the DC metropolitan area. An outline of the contents will be developed in coordination with staff at Goddard Code 613.3. A prospectus of the documentation, at present assumed to be in book format, will be prepared and circulated to various academic publishes in anticipation of commercial publication and distribution. As dients of chapters become ready, they will be circulated to be in book format, will be given and circulated to various academic publishes in anticipation of commercial publication and outside reviews prior to submission to the publisher. Timestakes for intermedi | | |
| 613.3 | | TOMS History Documentation | 613.3-009-02 |

| | sinuation of second relating from the structure ments from thoughtestoring model data and assessment of various retrieval algorithms from the simulated data. | | |
|-------|---|---|--------------|
| | opposering the output products, modifying the code for improvements and corrections, and testing alternative versions of the algorithms. A secondary objective is to model and simulate the performance of spaceborne and ground-based weather radars. The focus will be on the dual-frequency precipitation radar (DPR) that has been proposed for the Global Precipitation Mission (GPM). The work includes | | |
| 014.0 | The primary objective is to maintain and upgrade the FORTRAN codes for three operational TRMM Precipitation Radar algorithms designated as 2821, 3825, and 3826. The work includes: examining and | , | |
| | | Radar Design and Data Analysis | 614.6-004-08 |
| 614.1 | Support for research on remote sensing of sea surface salinity. Provide modeling, analysis, and algorithm development for research on remote sensing of sea surface salinity being done to support the Aquarius mission. | Remote Sensing of Sea Surface Salinity | 614.6-003-07 |
| | software, and proposing and implementing security practices. D. Perform operating systems, compiler, and application software updates to maintain performance and security of the systems. Eupdate and maintain information on the configuration of the systems being supported. F. Integrate new computers, peripherals and network switches/routers into the computing facilities listed above. G. Monitor and tune data systems to improve performance and reliability in generating, archiving and distributing global remote sensing science products. H. Develop Perl scripts and web pages as required to support system administration functions or other activities supporting global product generation, distribution or outreach to the community. I. Maintain and enhance the SATE web site used for account managed by the Terrestrial Information Systems Branch. J. Develop and maintain on-line documentation of systems administration procedures. | 25 | |
| | The Contractor shall provide computer systems administration support for the following: 1) the MODIS Adaptive Processing System (MODAPS); 2) the MODIS Team Leader Science Computing Facility (TL-SCF); the Science Investigator-led Processing System (SIPS) for the Ozone Monitoring Instrument (OMI); 4) the Land Product Evaluation and Test Element (PEATE) for the Visible/Infrared Inager/Radiomater Suite (VIIRS) on the National Polar-orbiting Operational Environmental Satellite System (NPOESS) Preparatory Project (NPP); and 5) the PEATE for the Wisible/Infrared Profiler Suite (OMPS). In performing the work, the Contractor shall A. Manage, log, report, diagnose, and correct observed and reported software, and network problems. In manage, and estected backups of supported computer systems C. Manage and implement a secure computing environment by monitoring and deporting computer systems C. Manage and implement a secure computing environment by monitoring and deporting computer systems C. Manage and implement a secure computing environment by monitoring and deporting computer systems C. Manage and implement a secure computing environment by monitoring and deporting computer systems C. Manage and implement a secure computing environment by monitoring and deporting computer systems C. Manage and implement as secure computing environment by monitoring and deporting computer systems C. Manage and implement as secure computing environment by monitoring and deporting computer systems of the Computer systems | Œ | |
| 614.5 | | System Administration for Code 614.5 Global Processing Systems | 614.5-007-01 |
| | | | |
| 614.5 | The Contractor shall provide technical support for on-site Government science and engineering workstations and peripherals, UNIX and LINUX workstations and peripherals, and manage information about | Codes 614.4 and 614.5 | 70-000-01-10 |
| OTA-U | processing data from other instruments. | Operations | |
| 614.4 | The contractor will: - Support Oracle database upgrades and operations including database backups and user SQL queries - Support DocMGR operation, upgrades, and posting new content and user account management - Support PostgreSQL database upgrades, operations including database backups for DocMGR application and others - Help to catalog the Citadel derived telemetry database | COCM Database Support | 614.4-006-00 |
| | Algorithm CMORPH to AGRMET and in a joint project participation between the NASA GSFC Hydrological Sciences Branch (HSB), NOAA/NCEP/Climate Prediction Center (CPC) and the Air Force Weather Agency (AFWA), the AFWA has made a Algorithm CMORPH to AGRMET and in a joint project participation between the NASA GSFC Hydrological Sciences Branch (HSB), NOAA/NCEP/Climate Prediction Center (CPC) and the Air Force Weather Agency (AFWA), the AFWA has made a request to the NCEP/CPC to provide software and assistance to implement the Climate Prediction Center Morphing (CMORPH) satellite rainfall sestimation processing algorithm on their mainframe computers. The GSFC/HSB branch also receives funding from AFWA towards improving their land surface modeling system known as AGRMET. They are in the process of transitioning the GSFC/HSB land surface modeling system, known as AGRMET. They are in the process of transitioning the GSFC/HSB land implement improvements to their precipitation and precipitation and CMORPH is developed by Wyle professional on CPC contract. AFWA is keen to implement improvements to their precipitation analysis, and one of the ideas of joint project sponsor is to implement both CMORPH at AFWA. The process involved will require the transfer of software and assistance to obtain HDF orbit file (passive microwave) PMW rainfall, decode these files, map the rainfall to high temporal/spatial resolution, and calibrate the rainfall to reate cloud motion vectors from the CPC global 30 minute maps of merged 4 km IR implement processing of forward and backward in time propagation of PMW rainfall, and the final morphing of the propagated rainfall (CMORPH) The final CMORPH/QMORPH products will be benchmarked against equivalent products running operationally at NCEP/CPC. | Algorithm CMORPH to AGRMET an AF | |
| 614.3 | | Development and Implementation | 614.3-003-01 |
| 614.3 | Support the scientific investigation of the technical monitor on development, calculation and modeling of aerodynamic roughness and other land products for use within hydrologic/hydrodynamic and atmospheric transport modeling 2. Provide analyses results, graphics, and written documentation, and other information for journal publications in a timely manner. | Assessment of NASA Derived Products in IMAAC Models | 614.3-002-05 |
| 614.2 | This activity provides support to run oceanographic models. | Physical Oceanography Model Support | 614.2-001-04 |
| 614.1 | This effort provides programming support for the analysis, validation, and utilization of satellite passive microwave snow and sea ice retrievals. Specific work includes: development of new snow and sea ice data products as well as improvement of existing products; retrieval and archiving of snow and sea ice data for use in studies; preparation of graphics for presentations and scientific papers; and documentation of algorithms and datasets. | AMSR-E Sea ice and Snow on Sea Ice Support | 614.1-008-00 |
| 614.1 | This task will provide science programming support for the Operation iceBridge team at NASA Goddard. Operation iceBridge will gather large amounts airborne data from numerous instruments over sea ice and ice sheets. Airborne instruments include Lidars, Radars, high resolution cameras and a gravimeter. Support will include: - Co-locating large geographic datasets collected by a variety of instruments in different formats Processing radar data to formats compatible with other earth science data Development and implementation of algorithms to be used in data analysis. | Operation loadridge Science Programming Support | 614.1-007-01 |
| | | | |

| | and/or funding to carry out scientific investigations using GALEX data. This work activity provides logistic and technical support to the GALEX Project Scientist in operating the GI program. | ar | |
|-------|--|--|---------------|
| 665 | GALEX is a NASA UV imaging and spectroscopic survey misison that will study star formation and its evolution over the redshift range 0.2.5. GALEX Guest Investigators (Gist) are awarded observing time | Support Garage (GI) | 11-00-0.000 |
| 665 | supplied under this Activity is to support the development of IR, far-IR, and submillimeter instruments, and the technology and infrastructure that are required for those instruments. The effort supplied under this Activity includes technology development, design, fabrication, testing, calibration and characterization, field and flight operations, as well as scientific data analysis and modeling. Administrative/logistical, documentation, and organizational support are also included. | | |
| | Evolution of Cosmic Structure (SPECS). The contractor will collaborate with members of the SAFIR, SPIRIT, and SPECS mission concept study teams to perform these functions. The contractor will also provide support for development of software for the Widefield Imaging Interferometer Testbed (WIIT). | | 565 0-007-10 |
| | The contractor shall support selence requirement specification for the shall be about the shall selection be the shall support selection enginement specification for the shall be shall selection be the shall be | r Interferometer | 665.0-005-08 |
| | poort development, testing, and dealownest of instruments to measure the portion is a superior development. | | |
| 665 | To have a second for the second for | Cosmic Microwave Background (CMB) Observations and | 665.0-003-06 |
| | The contractor shall assist in developing, writing, and documenting the WMAP science data processing software. This includes developing algorithms for reading and guality-checking the raw, time-ordered science and ancillary data, and in supporting the development of software to enable map-making, systematic error analysis, and science data analysis, including removal of the Galactic foreground. The contractor shall also support the software activities of the WMAP Mission Operations group as required. Computer systems support for the WMAP project is also included. | | |
| | energy was a series, someting, prepaining, migraning, end processing or whiteh and other CMB data sets, and outreach and logistical support. | WMAP Science Data Support | 665.0-002-05 |
| 665 | The contractor shall assist developing and maintaining the Legacy Archive for Microwave Background Data and Analysis (LAMBDA) data center and its web site. This includes development of web site and archive features and tooks selecting measures ingesting and processing of usual Data and Analysis (LAMBDA) data center and its web site. This includes development of web site and | LAMBDA Data Archive T | 665.0-001-04 |
| 662 | The contractor shall support the development of the Astro-H/SNS detector assembly, a subsystem that interfaces the cryogenic x-ray calorimeter detectors to the rest of the SNS instrument electrically, mechanically, and thermally. This shall include the production of breadboard components and support for the production and qualification of an engineering model unit, a flight unit and a flight space unit. | | |
| | The second secon | Assembly | 662.0-008-01 |
| 662 | The contractor will provide support for developing advanced high resolution x-ray microcalorimeters (both silicon-based and superconductor-based) and their near-term applications (laboratory astrophysics and sub-orbital observations). | X-Ray Microcalorimeter T Development Support a | 662.0-006-09 |
| 662 | This work activity consists of development, testing, maintenance and support for mission-specific HEASARC data analysis software, | _ | |
| | Comrector shall support all aspects or general (non mission-specific) HEASARC data analysis software, including development, maintenance, configuration management and public releases. | HEASARC Mission-specific Software | 662.0-004-07 |
| 662 | | HEASARC Software Support | 662.0-002-05 |
| 562 | HEASARC data holdings; develop and maintain software systems for access to HEASARC data; incorporate new missions and datasets into the HEASARC, support science research with HEASARC resources. | | |
| | This effort provides support for the HEASAC database and archive and enurses that they are fully available in the science and only to consociate. The operation of the HEASAC database and archive and enurse start they are fully available in the science and only to consociate. The operation of the science and only to consociate the | HEASARC Database and Web | 662.0-001-04 |
| 660.1 | The contractor will lead workshops for middle and high school teachers on topics relevant to the HEASARC and to scientific results from the Suzaku and Astro-H missions, including the origin of the | The suppose | |
| 661 | Support the development, valuation and testing of operations and analysis software pertinent to the Fermi mission. | enter | 661 0-005-08 |
| 661 | remorm systems engineering and software configuration management for the Fermi LAT instrument team. | | 661 0-002-003 |
| | They approaches, and the System structures as user support, report detailing activities performed during the previous month. | | 661 0-002-05 |
| | system and network related problems. Coordination with the ODIN vendor, when appropriate, is also required. The Contractor shall be responsible for planning, monitoring, and implementing system and retwork security practices and shall be responsible for system management including the maintenance of hardware and software inventory lists. The Contractor shall be responsible for implementing directives from the GSFC Chief information Officer including mandatory security issues, testing, email and system logging regulations. The Contractor shall be responsible for providing after hours, holiday, and weekend support for mission critical activities within the ASD computing environment. The Contractor shall be responsible for providing optimal and standardized user workstation configurations of files annihilations and file system structures as well as the responsible for providing optimal and standardized user workstation configurations of | | |
| | Digital Ortios, A.M.A.H.J.A., Utilities, word/text processing software such as leX/LaleX and framemaker, and other software such as Mathematica, NAG, and Object Center. The Contractor shall be responsible for installing and configuring new hardware and software acquired. The Contractor shall be responsible for network management including attaching hosts to the network troubleshooting | | |
| | shall assist in defining requirements for the acquisition of new and updated software including science related software such as IRAF/SDAS/PROS, IDL, and Mongo; system software such as Sun Solaris, | | |
| | ine Contractor shall be responsible for the systems management of the ASD computing environment including hardware and software for computers and networks. The Contractor shall assist in defining requirements for the acquisition of new hardware equipment including workstations, peripheral devices such as juke boxes, disks, printers, tape drivers, optical disk drivers, and memory. The Contractor | _ | |
| 660.2 | | ASD Computing & IT Support | 660.2-001-04 |
| 660 1 | This work activity supports operations and planning activities at the SOF level, and also includes coordination of efforts between the other SOC elements. | | 660.1-004-07 |
| 660.1 | Support the Swift Science Center (SSC) with data analysis software, s/w integration & testing, on-orbit instrument calibration, the Guest investigator Program, and preparation of outreach materials for cognizant scientists. | Swift Science Center Support | 660.1-003-06 |
| 660.1 | This effort includes support for the Guest Observer Facility, including support for project-level reviews. | suest Observer Facility | 660.1-002-05 |
| 660.1 | Support. | Support Costree racinty | |
| 660 | Analyze observations of x-ray selected AGN (from the Swift BAT survey) in the Spitzer archive, identify the most appropriate candidates for follow-up IR and optical photometry to support current proposal efforts to expand the scope of the science. Reduce data with the goal of publishing a series of papers to follow on the original survey paper published in early 2010. | | 560 1-001-04 |
| | | Spitzer Analysis of Swift BAT AGN | 660.0-001-04 |

| To rature in 2017. Support development of SPICE instrument in the following areas: (1) Investigate the current six mechanism design concept to reduce risk. Investigate mechanism volume, method for moving the slits into the field of view, consideration for thermal demands, actuator and bearing selection, etc. (2) Design concepts/options that will reduce programmatic risks and better define tall poles and any potential six mechanism issues. (3) Scope expanded on 1/1/10 with additional requirements to support Phase A design and development of SPICE Intensifier by Sensor Sciences, LLC. (4) Design the setup for testing and calibrating the SPICE detector. Identify equipment and facilities available to carry out the test, and what needs to be acquired. (5) Oversee the preparation for performing the test. Carry out the test and calibration of the SPICE detector. The test of the SPICE breadboard detector will be carried out in late 2010 or early 2011. Work on the engineering and flight models will be carried. |
|---|
| Provide mechanical and opto-mechanical design support for the SPICE (Spectral Imaging of the Coronal Environment) instrument selected to fly aboard the joint ESA/NASA Solar Orbiter mission scheduled |
| The contractor shall support the specification, design, fabrication, integration, and testing of detector systems for space-borne solar imagers and spectrographs, including the SPICE instrument on Solar Orbiter and the EUNIS sounding rocket instrument. |
| Develop and maintain 30 Sun iPhone app that pushes STEREO solar images to users. Extend app to include support for iPad and delivery of SDO images. Research, develop, and consult on Solar Physics articles. Develop Heliophysics Augmentation program that subscribes students and teachers to a text messaging system that provides alerts and updates on news and events relating to the Sun and associated Heliophysics activities. Extend program to support SDO and Journey to the Stars outreach activities. |
| The contractor shall support the Vittual lonospheric-Resospheric-Thermospheric Observatory (VITMO). VITMO will provide ITM research scientists with integrated access to distributed and diverse scientific data holdings, models and tools, with the specific objective to allow ITM processes to be studied more completely as systems. VITMO will be a common, extendable portal to ITM data, models, and tools, focusing to data sources including ITMED, AIM, C/ROFES, LARS, SuperDARN, CDAWeb, SSCWeb, and ModelWeb, and coupled with a strong understanding of ITM community needs. Primary VITMO development is a joint effort of JHU APL and NASA Goddard. |
| The contractor shall support the Space Physics Data Facility (SPDF) project as it provides unique correlative multi-mission and cross-disciplinary value-added heliophysics data services and special products. SPDF is responsible to ensure maximal clarity in the meaning and appropriate use of data; to provide all data services robustly, with high performance, unique functionality and taking maximum advantage of automation and distributed capabilities in the broader community; to engage on a continuing basis with the external science community, to establish science data needs against SPDF's capabilities and set future SPDF priorities; and to manage all aspects of SPDF to satisfy NASA and community requirements for system security, the integrity and preservation of data and continuity of data services. |
| |
| rostion Description: stence Writer/Web Editor Specific Job Unites: Research and write for NASA Public Affairs 15-20 media products (Press Releases, Web Features, Media Advisories, fact sheets, podcasts) annually on cutting-edge solar science research, as assigned. Capture, post and format image rich stories for the web. Conduct assessments of the news value of selected journal articles and meeting presentations; recommend appropriate Public Affairs products based on this evaluation. Respond to inquiries from journalists for Interviews and images related to media products created by the team. |
| The contractor shall support analysis of NASA observations, primarily from the Hubble Space Telescope Imaging Spectrograph (STIS) and Cosmic Origins Spectrograph (COS), as well as related ground-based observations. Tasks will include measurements, modeling, and database management. |
| The purpose of this activity is to provide support to the Instrument Scientist for the Wide Field Camera 3 Project for the Hubble Space Telescope. The principal concentration of work is in the GSFC Detector Characterization Laboratory (DCL), where tests of candidate detectors are carried out and the resulting data are analysed. Support is also required for instrument-level testing and calibration support and analysis. |
| GSFC is currently developing detectors for the CLASS (Cosmology Large Angular Scale Surveyor) instrument in collaboration with Johns Hopkins University. The Observational Cosmology Laboratory is working closely with the Detector Development laboratory to build and deliver these detectors. The purpose of this effort is to support a lab technician to play a major role in testing detector parts. The contractor will be responsible for designing/fabricating laboratory test setups in collaboration with senior personnel and operating cryogenic vacuum systems and reporting the results of the detector tests in a timely manner. General experienceal skills are also required. These include, but are not limited to experience with electronics, data acquisition, mechanical design, and cryogenics. |
| |
| activity includes technology development, design, programming, testing, calibration and characterization, field and flight operations, as well as scientific data analysis and modeling. In addition, some administrative, logistical, documentation, and organizational support will be provided. |
| sensor configuration and must have a wide bandwidth (greater than 20 MHz), high linearity and very stable phase shift characteristics over the entire useful bandwidth. |
| The Laser Interferometer Space Antenna (LISA) is a NASA/ESA planned gravitational wave sensor. To achieve the required high sensitivity, LISA must employ very low noise infrared photoreceivers to allow the infrared laser metrology system signals to be readout to high precision. For this effort, the contractor will provide support for the assembly, design, evaluation and electronic testing and analysis of prototype photoreceivers and voltage references and associated christics in an absent of the contractor will provide support for the assembly, design, evaluation and electronic testing and analysis of prototype photoreceivers and voltage references and associated christics are the use of the contractor will provide support for the assembly, design, evaluation and electronic testing and analysis of |
| |
| Provide development support for components, instrumentation, and equipment for test, fabrication, and assembly of long wavelength detectors for astrophysical research. |
| used to perform principal component analysis to determine the most relevant dimensions of the dataset. This will be followed by a determination of the dependence of the optical and its colors on luminosity. |
| The purpose of the activity is to support development and studies of optical-to-infrared luminosity functions of galaxies. Photometry and spectroscopy of galaxies from several on-line databases will be |

| 690.0-003-06 | 674.0-004-00 | | 674.0-003-01 | | 673.0-002-02 | | | 673.0-001-07 | | | | V | | | - | 672.0-004-01 | 10-600-0:770 | 673 0.003.01 | 672.0-002-01 | | | _ | | | | | | | 20-100-0:270 |
|--|--|-----|---|---|---|---|---|--------------------------------|--|--|--|---|---|--|--|--|--|--|---|--|---|--|---|--|---|---|---|--|-------------------------------|
| SSED Systems & Network Support | MMS EPO Support | 0 | Electric Field Sounding Rocket | TOBICS | VWO Science Support Services | | lern | Linar Potential Catarraination | | | | | | - | | Pridrasts for NASA Missions | irnane viewer for space weather | ibhoo Vieus for Some Work | Heliospheric Education with CUNY | | | | | | • | | | | VEPO INY-IPY Support Services |
| Solar System Exploration Division (SSED) System and Network Support (Division system administrators). Provide desktop, Division server, and peripheral system administration support and network administration for the Solar System Exploration Division. Ensure adherence to Agency and Center security standards. | spheric Multiscale (MMS) mission. Responsibilities include the planning, coordination, implementation, and management of the MMS | | 16 Support several of the activities proposed on the ROSES2008 Geospace 4-yr award entitled "Establishing links between solar-wind and topside-ionospheric parameters." | research community. VWO will extend Heliophysics Virtual Observatories into wave-specific datasets that span most Heliophysics domains: solar wind, interplanetary space, terrestrial magnetosphere and iomosphere, and planetary magnetospheres. | The Virtual Wave Observatory (VWO) project is one of the NASA SMD Heliophysics VxOs with the goal to make all Heliophysics plasma wave and radiation data searchable, understandable and usable by the Heliophysics community. To this end, the VWO will provide uniform and robust access to distributed coace plasma wave and radiation data searchable, understandable and usable by | models. The Project Scientist for the Apollo 12, 14 and 15 investigations will lead the effort to identify appropriate ALSEP/SIDE time periods for both TID (Total Ion Detector) and MA (Mass Analyzer) and generate measured surface potentials. | This work activity is intended to support a detailed analysis of ALSEP/SIDE (Apollo Lunar Surface Experiment Package / Suprathermal Ion Detector Experiment) data using modern measurements and | curiculum. | activity designed to show users how to integrate each podcest with existing mission videos, image galleries, the Space Weather Media Videower and the Space Weather Action Center program. Overall, this activity will provide them with the perfect opportunity to begin their own research using mission data as a 'primary' source. Teachers can also use the videox and descriptive nod-rasts to anhance their | educators, students and museums. Content for each podcast in the series would include a wide range of topics including: scientist interviews, mission highlights, featured activities, website information, multimedia resources are links to each podcast would be made a wide range of topics including: scientist interviews, mission highlights, featured activities, website information, | the relationship we have with our existing community and broaden the reach of our E/PO programs. The SED team will enhance the online outreach presence of RHESSI and IBEX through the development of a series of dedicated podcasts focused on the latest mission science and education information. The series would be appeared through the development | EARN Day's growing social network (i.e. Facebook, Twitter, YouTube). This network excels at user interaction and communication, providing the perfect framework for the SED community to share feedback and dieas. It also provides a venue to provide real-time updates on space weather, sunspots, autora, E/PO events and missions. Integrating RHESSI and IREX information into these network will transfer | podcasts have been accessed over 200 million times since SED began in 2000. Ongoing communication between Heliophysics scientists, educators and the general public is greatly enhanced by through Sun- | students, teachers, and the public. This program provides missions with the opportunity to engage millions of students, teachers and the general public, both nationally and world-wide. Currently, our registered impact extends to 11 900 educators 3 700 missions and 11 900 educators 3 700 missions 3 700 mis | Mission Support: Podcasting and Social Media The Sun-Earth Day program coordinates scientific and educational resources of NASA's heliophysics missions to tell a compelling and coherent story of the processes and phenomena that cover nearly all aspects of the system-wide interconnections within the heliosobere, it is one of NASA's next surreserid afforts to communicate heliophysics missions to tell a compelling and coherent story of the | information about NASA missions and NASA datasets. " To extend the activities found in the Space Weather Action Center and other classroom based activities. | To create and to publish via on-line stores iPhone and Droid applications, i.e. apps, to meet the following objectives: * To provide a new and compelling method for K-C 12 students and educators to access | enrichment activities and research for their students. | This project involves CUNY working with GSFC Heliophyscis Science Division to provide college/university faculty professional development, curriculum enhancement and academic program development, and undergraduate student research on Heliophysics sciences. Goddard colleagues will also provide support to high school teacher professional development so that they can develop Heliophysics | calibrated to upstream solar wind monitor data and to surface and lunar orbital measurements from the Apollo missions. Available data will be conditioned in ASCII format for access through the new LunaSOX Data Browser and a VEPO-like web interface will be implemented for access to LunaSOX data products registered into VHO. LunaSOX work may continue at declining funding levels through FY13. | Surface Origins Exploration) Focus group project to extend the registry of VHO to plesma and related magnetic field data from the Apollo-era constellation of lunar surface, lunar orbital, and geospace solar wind instruments and to support improved modeling of solar wind interactions with the Moon. This project is implementing a hybrid kinetic computational model for the lunar plasma interactions as | the Polar Gateways Arctic Circle Sunrise conference at Barrow, Alaska. FY10 funding of this task is being augmented for additionally supports lift through implementation of the Goddard-based permanent web site of the Polar Gateways Arctic Circle Sunrise conference at Barrow, Alaska. FY10 funding of this task is being augmented for additional task work elements in support of the task monitor's LunaSOX (Lunar | for SPASE and VxO development. Although this initial phase of the VEPO project does not support development of query capabilities independent of VHO, the project will implement and maintain a | Observatories. Standards definition and refinement for the descriptive metadata is undertaken in collaboration with the extended VEPO team at Goddard, Applied Physics Laboratory Johns Hopkins Laboratory. University of New Hampshire, Fundamental Technologies LLC of Lawrence Kanass and the Library Surface (EXTENSITY of New Hampshire, Fundamental Technologies LLC of Lawrence Kanass and the Library Surface (EXTENSITY OF New Hampshire, Fundamental Technologies LLC of Lawrence Kanass and the Library Surface (EXTENSITY OF New Hampshire). | new solar energetic particle from the two Starao spacecraft. Registry of ground-based neutron monitor data products will also be extended. These descriptions must conform to evolving standards of the Space Physics Archive Search and Extract (SPASE) standard lexicon in XML format to enable data queries and interoperability with distributed U.S. and international data propriories and exhaustications. | and evolving middlewere of VHO. This approach enables complex queries for distributed data types and key parameters registered with VHO. Priorities in the third and final year of the VEPO project, as originally proposed, are to complete registration of metadata descriptions of selected VEPO-related data products from the Helios 1&2, Voyager 1&2, Ulysses, SOHO, and Wind missions, and to register | orbital NASA heliospheric energetic particle data sets as an ongoing development effort within the evolving heliophysics virtual observatory program of NASA. The VEPO team is organized to operate as a focus group within the broader heliospheric science scope of the Virtual Heliospheric Observatory (VHO) and is working to support user queries for VEPO-relevant data products through existing interfaces | The virtual thergetic Particle Observatory (VEPO) project of Goddard's Heliospheric Physics Laboratory is a continuing NASA-supported initiative to develop automated capabilities for discovery and access of heliospheric energetic particle and supporting ancillary data in the U.S. and international heliophysics data environment. VEPO Improves access and usability of selected Heliospheric Network and sub- | |
| 699 | 674 | 674 | 673 | | 673 | | 673 | | | | | | | | 672 | | 672 | | 672 | | | | | | | | | | 672 |

| 699 | init and the engineering and technician support to design, build and test flight instrumentation and related components, and to provide post-launch and mission support for the Mars | Section 2 | 10,000,000 |
|----------|--|--|---------------------------------------|
| | This effort will provide engineering and technical support to design, build and test of instrumentation to support the Lunar Atmosphere and Dust Environment Explorer (LADEE), and to provide post-launch and mission support for the instruments. | LADEE | 649,0-004-01 |
| 699 | Support for development of miniaturized instrumentation for future NASA astrobiology investigations. This includes, but is not limited to fabrication and assembly of mass spectrometer components and performance testing of mass spectrometer breadboards. | Laser Lab Support | 699.0-003-03 |
| 699 | This effort provides the engineering and technician support to design, build and test flight mass spectrometers and related components and to provide post-launch and mission support for the mass spectrometer instruments. | Mass Spectrometer Instrument Development Support | 699.0-001-04 |
| | The effort will provide Mechanical Engineering support to the JUNO FluxGate Magnetometer (FGM) team. This support will include interacting with the GSFC personnel, the JUNO project at JPL, the supported vendor Lockheed Martin (LM) in Denver, the Advance Stellar Compass (ASC) vendor Technical University of Denmark (DTU) in Denmark, and other commercial companies. | Engineering Support | |
| 695 | | Planetary Missions Mechanical | 695.0-003-03 |
| eo. | Support SSED laboratory magnetic field investigations, research activity in the general area of planetary magnetic fields, magnetic measurements, and document preparation | Planetary Missions Support | 695.0-002-05 |
| 695 | Ensure that the computer environments for processing and serving the data from the three missions is routinely operational. Develop and maintain data processing and analysis software for the three missions. Process data for the three missions and ensure that they are routinely available to the user community. Support archiving of data from the three missions. Analyze data and present results as part of the instrument teams for the three missions. Support web sites for the three missions for scientific use and for outreach. | original authoric | |
| | Assist the Cassini CIRS Science and Operations Team with IT support, command file generation, uplink sequence verification and analysis, and data (both science and housekeeping) retrieval, validation, and archiving, instrument housekeeping data analysis, and database management. Provide mechanical engineering design support for the CIRS-lite instrument. | Cassim CIRS | 695.0-001-04 |
| | The contractor shall provide both scientific and administrative support for the Astrochemistry Laboratory in the Solar System Exploration Division at NASA/ Goddard Space Flight Center. The statements of work for each of these areas of support are listed separately in this document, with the requirements for the scientific work and for the administrative support as described below. SCIENTIFIC SUPPORT: The contractor shall support the development of theoretical modeling for the x-ray and gamma my emissions from planetary surfaces, assist in the calibration of space flight instrument systems, and development development in the programs. The contractor shall assist and support incidental activities necessary for maintaining laboratory operations. These activities will include, but are not limited to settling up experiments, analyzing data, recommending new laboratory test equipment, performing unique analysis in support of upcoming proposals, and supporting the laboratories' education and technology development programs. The programs being supported under this effort are the MESSENGER mission to Marcury and neutron-gamma ray planetary science instrumentation development through the NASA/ROSES program. ADMINISTRATIVE SUPPORT: The Contractors shall also provide a variety of support services to NASA/GSFC's Astrochemistry Laboratory which includes both science managers, such as the Lab Chief and other group leaders and other members of the science staff. | æ | |
| 691 | | Support for the Messenger Mission | 10-100-0169 |
| 690.1 | The Space Weather Action Center Team will train CLCs in the use of green screen technology, SWAC, and space weather science content, it is anticipated that each participating Challenger Learning Center will agree to the following: "Implement space weather into their Challenger Learning Center Missions "Participate in training to learn the content and the use of SWAC." Become proficient in the SWAC technology: green screen, space weather content, podcasts "Provide Professional Development programs for teachers." Encourage their teachers to complete audio and/or video Space Weather reports on a regular (dailty/weekly) basis to http://sunearthday.nasa.gov/swac Once the Challenger Center Space Weather Team (CCSWT) is incorporated into the simulated space flight missions, it will be sustained and upgraded by the CCSSE system just as the existing teams are currently supported. The SWAC Website http://sunearthday.nasa.gov/swac and the Space Weather Media Viewer will be maintained and upgraded under the auspices of the SWAC Team. | Challenger Space Weather | 690.1-013-01 |
| 6901 | The Sun-Earth Connection Education Forum (SECEF) promotes NASA's Heliophysics science results on a national level for the purposes of education in the classroom and for the knowledge and adification of the general public. The SECEF group at NASA/GSFC and a group at the University of California Berkeley work together to seek and utilize high leverage opportunities to benefit NASA's education and public outreach through the work being done by NASA-supported Sun-Earth Connection missions, programs, and scientists. SECEF supports NASA Hq Science Mission Directorate in the area of Heliophysics education and outreach. The main responsibility is coordination and communication with the Heliophysics missions and scientists and the education and outreach efforts that they do. This assures a unified approach to the subject, prevention of redundant efforts, focus on high priority topics, identification of important gaps in the education and outreach efforts, coordination with the general NASA Education and Public Affairs Offices, etc. SECEF also organizes and operates education programs such as Sun-Earth Day, the Heliophysics aspect of the International Year of Astronomy, Space Weather Action Centers, and other programs for which funding has been received through NASA competitive grant programs. These are often done in partnership with other organizations. | AAA MARA MARA MARA MARA MARA MARA MARA | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z |
| 690.1 | The contractor is responsible for supporting the restoration of Apollo data sets of relevance to the new lunar exploration program. Travel Requirements: Occasional travel to support acquisition of lunar data from other archives and data providers, to support data reviewers who attend lunar data peer review panels, to promote outreach at conferences and workshops, or to interact with users and potential data providers may be required. | Lunar Data Node | 690.1-009-02 |
| 690.1 | The contractor is responsible for supporting the restoration of Apollo 17 Lunar Atmosphere Composition Experiment (LACE) data sets, the conversion of the data to a modern data format, and the packaging of the data for submission to the Planetary Data System (PDS). Occasional travel is required to appropriate science conferences and workshops to present activities, to support data investigators reviewers who attend meetings and lunar data peer review panels, or to interact with users and potential data reviewers | LACE Restoration | 690.1-008-02 |
| <u>*</u> | The Solar System Data Services Office has been assigned the responsibility by Headquarters to supply Program Management services for the Planetary Data System, support staff for the PDS Lunar Data Node, infrastructure for the restoration of Apolio data, and various educational programs such as Solar System on a Sphere and other duties as assigned. Requires occasional travel to appropriate science or project meetings, to present activities, demonstrate capabilities, or to interact with users and potential data providers. | Planetary Data System Management Support | 690.1-007-02 |

| 699 | This effort will provide engineering and technical support to design, build and test of instrumentation to support the Castini Mission and to provide post-launch and mission support for the instruments. | 699.0-007-01 Cassini (INMS & GCMS) | 699.0-007-01 | |
|-----|--|--|--------------|--|
| 699 | 699.0-006-01 Volatile Analysis by Pyrolysis of This effort provides the engineering and technician support to design, build and test flight instrumentation and related components, and to provide post-faunch and mission support for the Volatile Analysis 699 Regolith (VAPoR). | Volatile Analysis by Pyrolysis of Regolith (VAPoR) | 699.0-006-01 | |